

Substitute for form 1449/PTO (Revised 04/2003)

**INFORMATION DISCLOSURE STATEMENT BY APPLICANT**  
(Use as many sheets as necessary)

Sheet 1 of

**Complete if Known**

Application Number 10/792,187

Filing Date March 3, 2004

First Named Inventor Valery A. Petrenko

Group Art Unit Not Yet Assigned

Examiner Name Not Yet Assigned

Attorney Docket Number 035721/274140

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No.	Document Number Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages of Relevant Figures Appear
		US-			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials	Cite No.	Foreign Patent Document Country Code - Number Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	English Language Translation Attached

**OTHER DOCUMENTS**

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	English Language Translation Attached
my	1	DUNKER, A.K., et al., "A Model for fd Phage Penetration and Assembly," <i>FEBS</i> , 1991, Vol. 292, p. 271.-274.	
	2	DUNKER, A.K., et al., "Proposed Molten Globule Intermediates in fd Phage Penetration and Assembly," <i>FEBS</i> , 1991, Vol. 292, p. 275-276.	
	3	GREEN, N.M., "Avidin and Streptavidin," <i>Methods Enzymol.</i> , 1990, Vol. 184, p. 51.-67.	
	4	GRIFFITH, J., et al., "Filamentous Bacteriophage Contract into Hollow Spherical Particles Upon Exposure to a Chloroform-Water Interface," <i>Cell</i> , 1981, Vol. 23, p. 747.-753.	
	5	LOPEZ, J., WEBSTER, R.E., "Minor Coat Protein Composition and Location of the A Protein in Bacteriophage $\phi$ Spheroids and I-Forms," <i>Journal of Virology</i> , 1982, Vol. 42, p. 1099. -1107.	
	6	MANNING, M., et al., "Mechanism of Coliphage M13 Contraction: Intermediate Structures Trapped at Low Temperatures," <i>Journal of Virology</i> , 1981, Vol. 40, p. 912. -919.	
	7	OH, J.S., et al., "Isolation of Chloroform-Resistant Mutants of Filamentous Phage: Localization in Models of Phage Structure," <i>Journal of Molecular Biology</i> , 1999, Vol. 287, p. 449. -457.	
	8	PETRENKO, V.A., SMITH, G.P., "Phages from Landscape Libraries as Substitute Antibodies," <i>Protein Engineering</i> , 2000, Vol. 13, p. 589. -592.	
my	9	ROBERTS, L.M., DUNKER, A.K., "Structural Changes Accompanying Chloroform-Induced Contraction of the Filamentous Phage fd," <i>Biochemistry</i> , 1993, Vol. 32, p. 10479.-10488.	

RTA01/2151532v1

Examiner Signature	Melametz	Date Considered	4/18/05
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\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<div style="position: relative; height: 100px;"> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px solid black; border-radius: 50%; text-align: center; line-height: 100px; font-size: 24px; font-weight: bold;">O I P E</div> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px solid black; border-radius: 50%; text-align: center; line-height: 100px; font-size: 12px; font-weight: bold;">JAN 14 2005</div> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px solid black; border-radius: 50%; text-align: center; line-height: 100px; font-size: 10px; font-weight: bold;">PATENT TRADEMARK OFFICE</div> </div> <p><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)</p>				Complete if Known		
				Application Number	10/792,187	
				Filing Date	March 3, 2004	
				First Named Inventor	Petrenko	
				Group Art Unit	1648	
Sheet 1 of 1				Examiner Name	Not yet assigned	
				Attorney Docket Number	035721/274140	
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my	1	WO 00/62351	10-19-2000	Auburn University		
↓	2	WO 02/063280 A1	08-15-2002	Auburn University		
my	3	WO 03/074548 A2	09-12-2003	Auburn University		
OTHER DOCUMENTS						
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my	4	DULTSEV, F. N., et al. "Direct and Quantitative Detection of Bacteriophage by 'Hearing' Surface Detachment Using a Quartz Crystal Microbalance," <i>Anal. Chem.</i> , 2001, pp. 3935-3939, Vol. 73.				
↓	5	HENDERER, A., et al. "Quartz Crystal Microbalance (QCM) as a Device for the Screening of Phage Libraries," <i>Biosensors &amp; Bioelectronics</i> , 1999, pp. 139-144, Vol. 14.				
↓	6	PETRENKO, V. A. and VODYANOV, V. J., et al. "Phage Display for Detection of Biological Threat Agents," <i>Journal of Microbiological Methods</i> , 2003, pp. 253-262, Vol. 53.				
↓	7	UTTENTHALER, E., et al. "Quartz Crystal Biosensor for Detection of the African Swine Fever Disease," <i>Analytica Chimica Acta</i> , 1998, pp. 91-100, Vol. 362.				
my	8	UTTENTHALER, E., et al. "Ultrasonic Quartz Crystal Microbalance Sensors for Detection of M13-Phages in Liquids," <i>Biosensors &amp; Bioelectronics</i> , 2001, pp. 735-743, Vol. 16.				
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